

**Clean Version of Pending Claims**

**USE OF SEROTONIN AGENTS FOR ADJUNCT THERAPY IN THE TREATMENT OF  
CANCER**

Applicant: Gary G. Meadows et al.

Serial No.: 09/866,458

---

1. A method for the treatment of cancer in a mammal having said condition, which method comprises administering to said mammal an amount of a serotonin agent effective to treat the cancer.
4. The method of claim 1, wherein the cancer is melanoma.
8. (Amended) The method of claims 1, 31, 32, 33, or 34, wherein the serotonin agent is administered orally, subcutaneously, topically, or intravenously.
9. (Amended) The method of claims 1, 31, 32, 33, or 34, wherein the serotonin agent is a serotonin reuptake inhibitor.
10. (Amended) The method of claims 1, 31, 32, 33, or 34, wherein the serotonin agent is a selective serotonin reuptake inhibitor (SSRI).
11. (Amended) The method of claims 1, 31, 32, 33, or 34, wherein the serotonin agent is selected from fluoxetine, fluvoxamine, paroxetine, sertraline, and citalopram, and pharmaceutically acceptable salts thereof.
12. The method of claim 11 wherein the serotonin agent is fluoxetine or a pharmaceutically acceptable salt thereof.

13. (Amended) The method of claims 1, 31, 32, 33, or 34, wherein the mammal is a human.
14. A method of inhibiting the growth of a cancer cell comprising contacting the cancer cell with an effective amount of a serotonin agent.
15. The method of claim 14 wherein the cancer cell is a melanoma cell.
16. The method of claim 14 wherein the serotonin agent is a selective serotonin reuptake inhibitor (SSRI).
17. The method of claim 14 wherein the serotonin agent is selected from fluoxetine, fluvoxamine, paroxetine, sertraline, citalopram, and pharmaceutically acceptable salts thereof.
18. The method of claim 17 wherein the serotonin agent is fluoxetine or a pharmaceutically acceptable salt thereof.
19. The method of claim 15 wherein the melanoma cell is a pigmented cell.
20. The method of claim 15 wherein the melanoma cell is a non-pigmented cell.
31. A method for the treatment of a tumor in a mammal, which method comprises administering to said mammal an effective anti-tumor amount of a serotonin agent.
32. A method for the treatment of metastatic cancer in a mammal, which method comprises administering to said mammal an effective anti-metastatic amount of a serotonin agent.

33. A method for the treatment of cancer in a mammal, which method comprises administering to said mammal an effective cytotoxic amount of a serotonin agent.
34. A method for the treatment of melanoma in a mammal, which method comprises administering to said mammal an effective anti-melanoma amount of a serotonin agent.